

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001294**Date Inspected:** 10-Sep-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Lift 3 East, Cross Beam #2, Lift 4 West**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Organize project files and documentation and download photos.

Lift 3 East

ZPMC performing ongoing repairs via sanding and scraping down floor area surfaces to remove contaminants and deleterious materials. ZPMC installed lighting inside lift at panel points 23-20 however they were pointed directly at ceiling areas and not illuminating the areas which the workers were performing work. Caltrans QA Lumley with ABF Bill Oak began marking visible areas of rusted exposed substrate whilst ZPMC QC's observed. Caltrans QA Lumley ceased marking operations and left the work area as ZPMC QC did not participate in the (QC) process and merely observed Caltrans and ABF performing QC work.

Lift 4 West

Floor beam top weld repair areas were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied from Panel Points 19-24. SMR Skyler Guest was also in attendance during the inspection.

Cross Beam #2

ZPMC requested a "Final" acceptance inspection on internal Interzinc 22 coated surfaces. Surfaces exhibited Low Dry Film Thickness(DFT), areas of dry-spray and cope holes insufficiently coated. ZPMC to attend to repairs and resubmit for Final inspection verification.

Miscellaneous Metal

SOURCE INSPECTION REPORT

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Base metal surfaces of 253 pieces of Splice plates Shim plates and Cover plates were de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Cross Beam #1

Follow-up Inspection performed with ABF Bill Oak on internal surfaces abrasive blasted and coated on 09-09-09, Caltrans QA Lumley pointed out the handrail and ladder assembly was improperly coated with Interzinc 22 instead of Hot Dipped Galvanized per contract requirements, also handrail along catwalk had been cut and re-configured. Internal repair areas appeared to be thoroughly coated, insufficient lighting to view coated surfaces properly.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

Caltrans QA Lumley inquired with ABF QA Bill Oak as to why no Notice of Inspections were sent by ZPMC for any work/repairs associated with Lift 4 East since loaded upon the ship.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
